

Title (en)
CONTROL METHOD FOR A WIND TURBINE

Title (de)
STEUERUNGSVERFAHREN FÜR EINE WINDTURBINE

Title (fr)
PROCÉDÉ DE COMMANDE POUR UNE ÉOLIENNE

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Application
EP 17717075 A 20170406

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Abstract (en)
[origin: WO2017178027A1] The invention relates to a method of controlling a wind turbine comprising a wind direction sensor, a number of pitch-adjustable rotor blades, a yawing system, and a control system for yawing the wind turbine rotor relative to the wind and for changing the pitch of the rotor blades. The method comprises measuring a wind direction parameter by the wind direction sensor, wherein the wind direction parameter is indicative of the wind direction relative to the wind turbine. Then firstly the measured relative wind direction is calibrated as a function of a predetermined offset parameter, and secondly the calibrated relative wind direction is adjusted as a function of a wind direction compensation parameter, wherein the wind direction compensation parameter depends on the calibrated relative wind direction. The adjusted relative wind direction is then used in the determining of a control parameter of the wind turbine. The parameters for the calibration and adjustment of the relative wind direction are obtained from a set of data comprising the wind direction relative to the wind turbine over time and as measured by the wind direction sensor on the wind turbine and as measured by a second wind direction sensor. The invention further relates to a control system for a wind turbine for performing a control method as mentioned above.

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